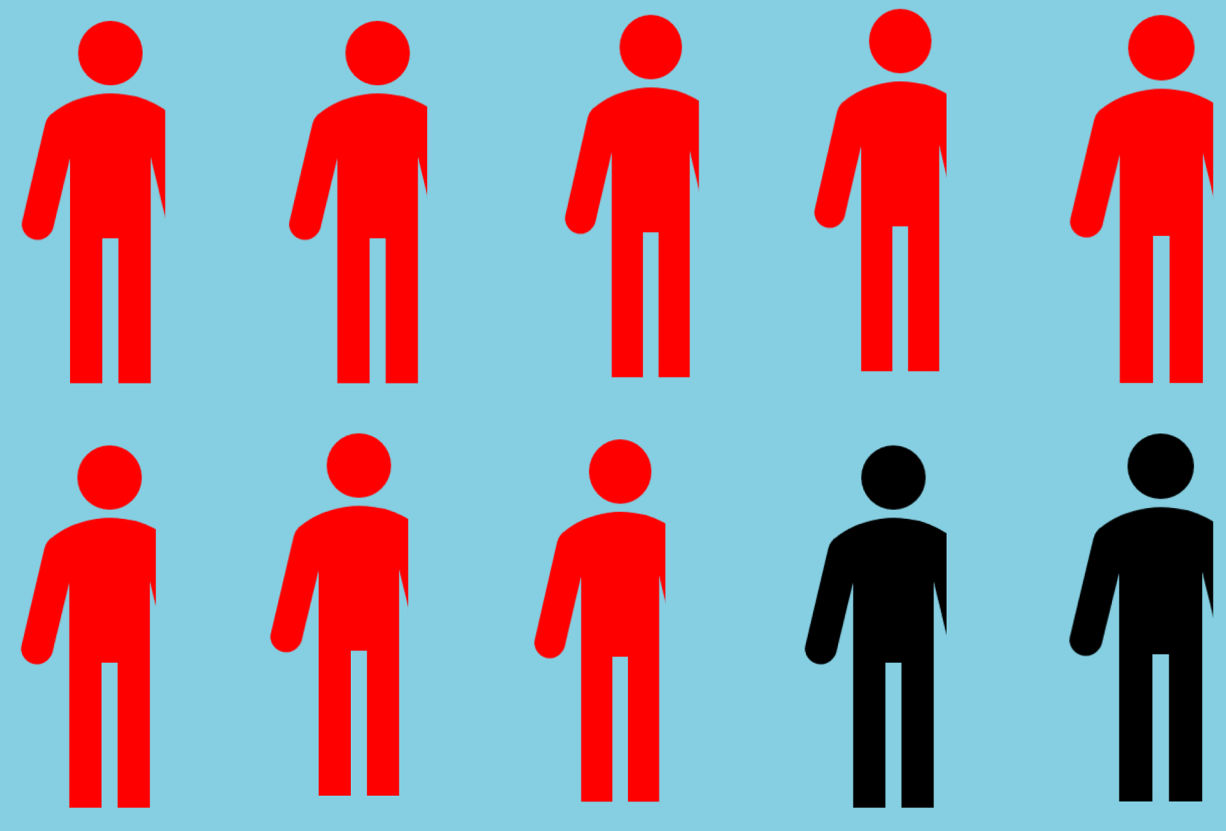
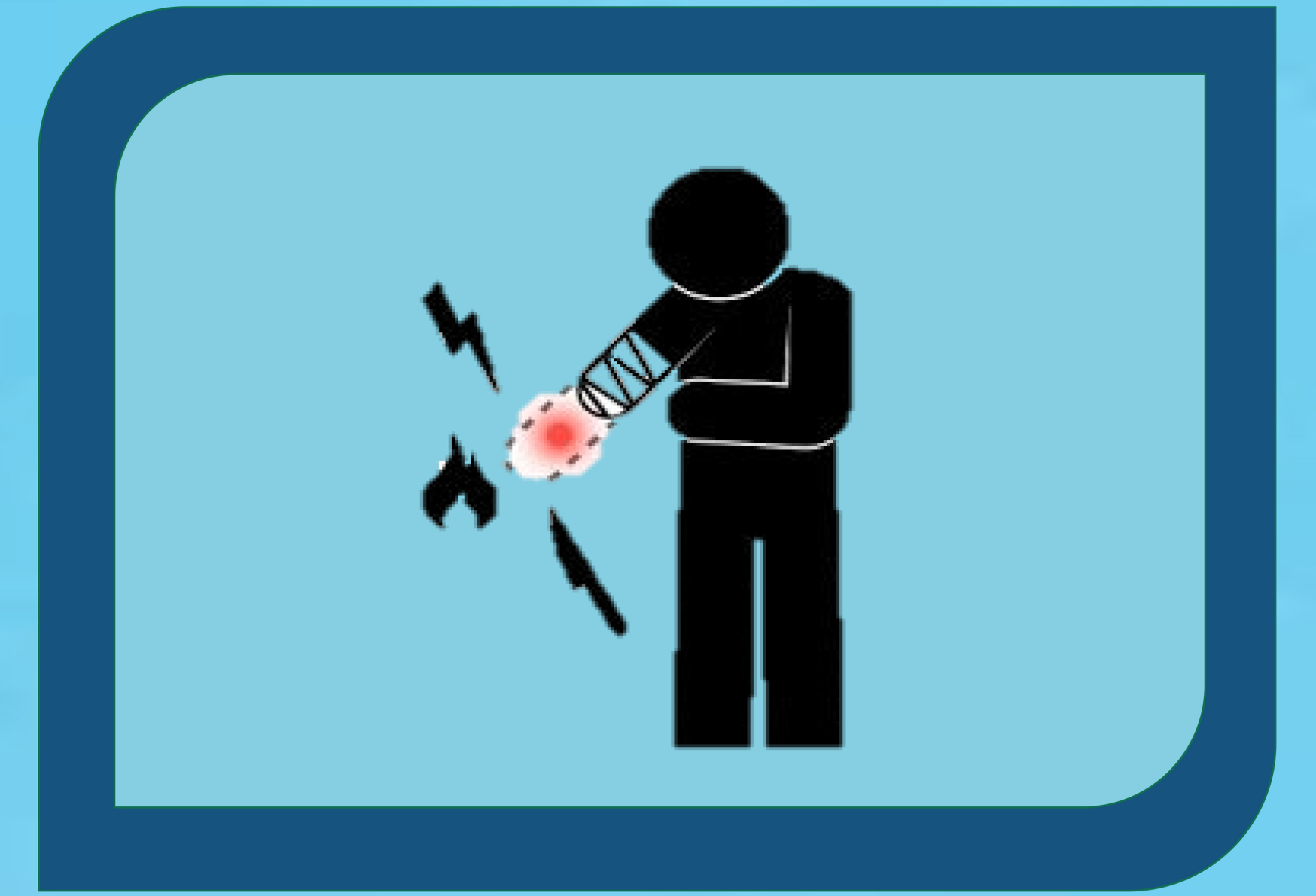


## Problem



Around **80%** of all amputees suffer from phantom limb pain (pain amputees feel in the limb that is no longer there)

There are solutions available for amputees that suffer from phantom limb pain, but many don't know about them and most treatments are not easily accessible for at home usage.



Some effects of phantom limb pain are burning, aching, stabbing, or tingling sensations in the portion of the limb that is no longer intact.

## Current Solutions

### Mirror Therapy



Amputee practices exercises using the mirror box

Mirror is faced toward the side of the intact limb

The stump, and intact limb are put into their respective hand holes

Pain is reduced

The intact limb is reflected onto the stump and tricks the brain into believing the limb is still intact

### Virtual Reality

Attach electrodes onto stump of amputated arm

Pick video game

Pain is reduced

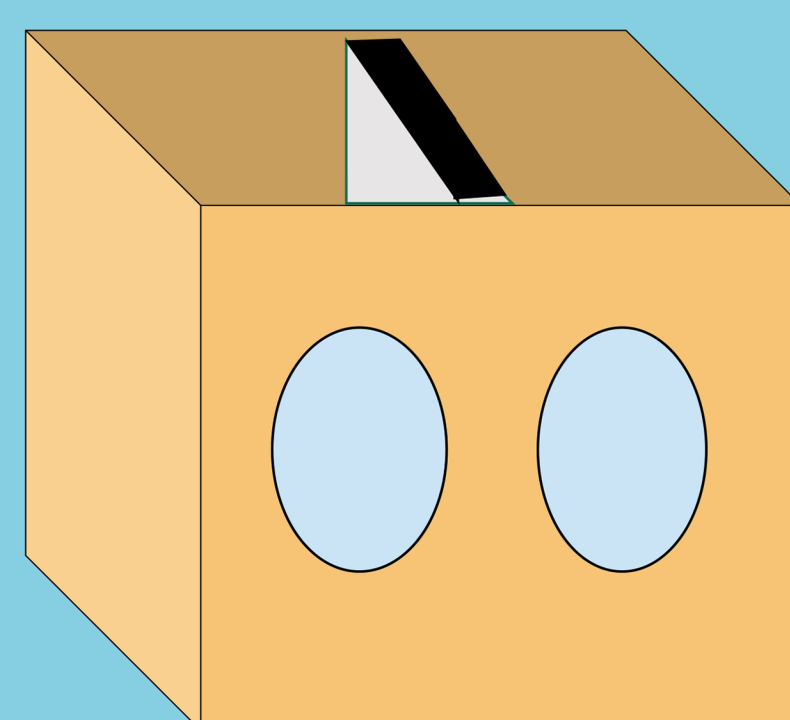
Virtual reality glasses are put on and game is played



Amputee plays game using virtual reality headset

## Our Solution

A therapy box containing two different types of treatments for phantom limb pain; mirror therapy and virtual reality. A pamphlet containing detailed usage of the therapy options and a survey will also be included.



## Implementation and Assessment

Sent on a rotation around the United States to each veteran's hospital

Distributed to amputees at each venue for a trial period

Informative pamphlet included in each therapy box

Survey included

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